Fig. 1

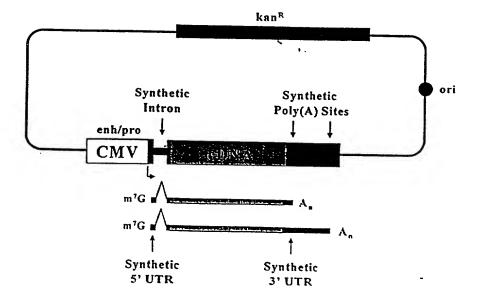


Fig. 2

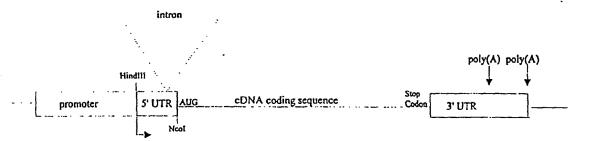
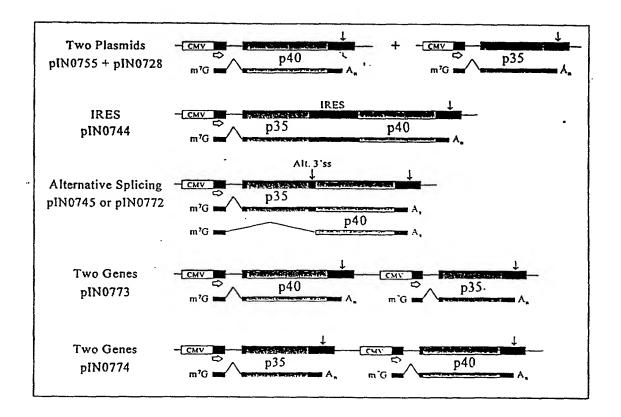


Fig. 3



III AGC

AGC

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Codon Table: Universal
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 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
 ATG TGT CAT CAA CAA TTA GTT ATT TCT TGG TTT TCT TTA GTT TTT GCT TCT CCT TTA
     TGC CAC CAG CAG TTG GTC ATC TCC . TTC TCC TTG GTC TTC TCC CCC TTG
                    CTT GTA ATA TCA
                                       / TCA CTT GTA
                                                        CTT GCA TCA CCA CTT
                   CTC GTG
                               TCG
                                          TCG CTC GTG
                                                        CTC GCG TCG CCG CTC
                   CTA
                               AGT
                                          AGT CTA
                                                        CTA
                                                               AGT
                    CTG
                               AGC
                                          AGC CTG
                                                        CTG
                                                               AGC
                                                                       CTG
 Val Ala Ile Trp Glu Leu Lys Lys Asp Val Tyr Val Val Glu Leu Asp Trp Tyr Pro Asp
 GTN GCN ATH TGG GAR YTN AAR AAR GAY GTN TAY GTN GAR YTN GAY TGG TAY CCN GAY
 GTT GCT ATT TGG GAA TTA AAA AAA GAT GTT TAT GTT GAA TTA GAT TGG TAT CCT GAT
 GTC GCC ATC
                GAG TTG AAG AAG GAC GTC TAC GTC GAG TTG GAC
                                                               TAC CCC GAC
 GTA GCA ATA
                   CTT
                                  GTA
                                         GTA GTA
                                                    CTT
                                                                   CCA
GTG GCG
                   CTC
                                  GTG
                                          GTG GTG
                                                    CTC
                                                                   CCG
                   CTA
                                                    CTA
                   CTG
                                                    CTG
                                   50
Ala Pro Gly Glu Met (Val Val Leu Thr Cys Asp Thr Pro Glu Glu Asp Gly Ile Thr Trp
GCN CCN GGN GAR ATG GTN GTN YTN ACN TGY GAY ACN CCN GAR GAY GGN ATH ACN TGG
 GCT CCT GGT GAA ATG GTT GTT TTA ACT TGT GAT ACT CCT GAA GAA GAT GGT ATT ACT TGG
GCC CCC GGC GAG GTC GTC TTG ACC TGC GAC ACC CCC GAG GAG GAC GGC ATC ACC
GCA CCA .GGA
                   GTA GTA CTT ACA
                                      ACA CCA
                                                           GGA ATA ACA
GCG CCG GGG
                   GTG GTG CTC ACG
                                        ACG CCG
                                                           GGG
                                                                  ACG
                           CTA
                           CTG
                                   70 /
Thr Leu Asp Gln Ser Ser clu Val Leu Gly (Ser Gly Lys Thr Leu Thr Ile Gln Val Lys
ACN YTH GAY CAR WEN WEN GAR GIN YTH GGN WEN GGN AAR ACN YTH ACN ATH CAR GIN AAR
--- --- --- --- --- --- --- --- --- --- --- --- ---
ACT TTA GAT CAA TCT TCT GAA GTT TTA GGT TCT GGT AAN ACT TTA ACT ATT CAA GTT AAA
ACC TTG GAC CAG TCC TCC GAG GTC TTG GGC TCC GGC AAG ACC TTG ACC ATC CAG GTC AAG
ACA CTT
                        GTA CTT GGA TCA GGA \ \ \ \ ACA CTT ACA ATA
               TCA TCA
ACG CTC
               TCG TCG
                          GTG CTC GGG TCG GGG
                                                ACG CTC ACG
                                                                  GTG
    CTA
               AGT AGT
                              CTA
                                     AGT
                                                    CTA
    CTG
               AGC AGC
                              CTG
                                      AGC
                                                    CTG
                                   90
Glu Phe Gly Asp Ala Gly Gln Tyr Thr Cys His Lys Gly Glu Val Leu (Ser )His \Ser
GAR TTY GGN GAY GCN GGN CAR TAY ACN TGY CAY AAR CON GAR GTN YTN WEN CAY WEN
--- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
GAA TTT GGT GAT GCT GGT CAA TAT ACT TGT CAT AAA SGT GGT GAA GTT TTA TCT CAT TCT
GAG TTC GGC GAC GCC GGC CAG TAC ACC TGC CAC AAG GGC GGC GAG GTC TTG TCC CAC TCC
        GGA
               GCA GGA
                              ACA
                                             33A 33A
                                                        GTA CTT TCA
        GGG
               GCG GGG
                              ACG
                                             333 533
                                                        GTG CTC TCG
                                                           CTA AGT
                                                                      AGT
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12
2 22
1

Leu	Leu	Leu	Leu	Mis	Lvs	Lvs	Glu	Asp	110 Glv	Tle	Trn	Ser	Thr	Asn	Tle	T.e.11	Lva	Agn	120 Gln
												WSN							
		_				AAA					TGG	TCT					AAA		
			CTT						GGA			TCA			ATA				
	CTC								GGG			TCG	ACG			CTC			
	CTA											AGT AGC				CTA			
	0.0	010	010							٠,						C10			
•	<b>61</b>	<b>5</b>	•	•	•	mb	D)	•	130	~	-1		•				<b>~</b> .	•	140
-			_		-				-			Ala GCN	_		-		-	_	
												GCT							
AAG	GAG	CCC	AAG	AAC	AAG	ACA	TTC	CTT		TGC	GAG	GCC	AAG	AAC	TAC		GGC		TTC
		CCG				ACG		CTC				GCG					GGG	-	
									AGA							AGT		AGA	
								CTG	AGG							AGC		AGG	
			=			_			150										160
												Thr							
ACN	TGY	TGG	TGG	YTN	ACN	ACN	ATH	WSN	ACN	GAY	YIN	ACN	1.1.4	WSN	GIN	AAR	WSN-	WSN	MGN
ACT	TGT	TGG	TGG	TTA	ACT	ACT	TTA	TCT	ACT	GAT	TTA	ACT	TIT	TCT	GTT	AAA	TCT	TCT	CGT
	TGC									GAC		ACC	TTC			AAG			
ACA ACG					ACA ACG	ACA	ATA	TCA				ACA ACG		TCA TCG	GTA			TCA	
				CTA				AGT			CTA			AGT				AGT	
				CTG				AGC			CIG			AGC			AGC	AGC	AGG
		_							170										180
												Ala							
GGN	WSW	WŚN	GAY	CCN	CAR	GGN	GTN	ACN	TGY	GGN	GC.K	GON	ACN	YTN	WSN	GCN	GAR	MGN	GTN
GGT	TCT	TCT	GAT	CCT	CAA	GGT	GTT	ACT	TGT	GGT	GCI	GCT	ACT	TTA	TCT	GCT	GAA	CGT	GTT
GGC	TCC	TCC	GAC	CCC	CAG	GGC	GTC	ACC	TGC	GGC	GCC	3CC	ACC	TTG	TCC	GCC	GAG	CGC	GTC
	TCA			CCA			GTA					GCA							GTA GTG
666	TCG	AGT		CCG		GGG	GTG	ACG		1300	GCG	300	ACG		AGT			AGA	0.0
		AGC												CTG	AGC			AGG	
									100										200
Ara	Gly	Asp	Asn	Lys	Glu	Tyr	Glu	Tyr	190 Ser	Val	Glu	Cys	Gln	Glu	Asp	Ser	Ala	Сув	
_	•	_		•		-		-				DGX.							
CGT	GGT	GAT	TAA '	AAA	GAA	TAT	GA.A	TAT	: ::: : -/:	T	GA2	131	CAA						CCT
	GGA		MML	. AAG	GAG	· IW	A/S	INC		TA		TGC	د/نے .	, 3	GAC		GCC GCA		CCC
CGG	GGG								TCG	GTG							GCG		CCG
AGA AGG									AGT							AGT			
AGG.									AGC							AGC			

210 220 Ala Ala Glu Glu Ser Leu Pro Ile Glu Val Met Val Asp Ala Val His Lys Leu Lys Tyr g<del>en g</del>en <del>gar ga</del>r wsn ytn cen ath gar gtn atg gtn gay gen gtn cay aar ytn aar tay GCT GCT GAA GAA TCT TTA CCT ATT GAA GTT ATG GTT GAT GCT GTT CAT AAA TTA AAA TAT GCC GCC GAG GAG TCC TTG CCC ATC GAG GTC GTC GAC GCC GTC CAC AAG TTG AAG TAC TCA CTT CCA ATA GCA GCA GTA GTA GCA GTA CTT CTC GCG GCG TCG CTC CCG GTG GTG GCG GTG AGT CTA CTA AGC CTG CTG **230** Glu Asn Tyr Thr (Ser Ser) Phe Phe 11e) Arg Asp LLe Ile Lys ProlAsp Pro Pro)Lys Asn GAR AAY TAY ACN WEN WEN TTY TTY ATH MG!! "AY ATH AAR CEN GAY CEN CEN AAR AAY PAT CCT CCT AAA AAT GAA AAT TAT ACT TCT TCT TTT TTT ATT CCT 'AT ATT ATT AAA CC GAG AAC TAC ACC TCC TCC TTC TTC ATC CGC 'AC ATC ATC AAG CC' JAC CCC CCC AAG AAC CC . CCA CCA ACA TCA TCA ATA CCA ATA ATA CCG CCG ACG TCG TCG CG? CC3 AGT AGT AGA. AGC AGC ACC: 250 260 Leu Gln Leu Lys Pro Leu Lys Asn Ser Arg Gln Val Glu Val Ser Trp Glu Tyr Pro Asp YTN CAR YTN AAR CCN YTN AAR AAY WSN MGN CAR GTN GAR GTN WSN TGG GAR TAY CCN GAY TTA CAA TTA AAA CCT TTA AAA AAT TCT CGT CAA GTT GAA GTT TCT TGG GAA TAT CCT GAT GAG TAC CCC GAC TTG CAG TTG AAG CCC TTG AAG AAC TCC CCC CAG GTC GAG GTC TCC GTA TCA TCA CGA GTA CCA CCA CTT CTT CCG GTG TCG CCG CTC TCG CGG GTG CTC CTC CTA CTA CTA AGT AGA AGT CTG AGC AGG AGC CTG CTG 270 thr )Trp (Sen (Thr ) Pro His (Sen Tyr Phe Sen Leu Thr Fine Cys (Val Gln Val Glp Gly Lys ACH TGG WIN ACH CCH CAY WIN TAY TTY MISH YTH ACH TTY TGY GTN CAR GTN CAR GGN AAR <del>----</del> --- --- --- --- --- ---/... ... <del>}</del> ACT TGG TCT ACT CCT CAT TCT TAT TTT TCT TTA ACT TTT TGT GTT CAA GTT CAA GGT AAA TCC ACC CCC CAC TCC TAC TTC TCC TTG ACC TTC TGC GTC CAG GTC CAG GGC AAG ACC GGA TCA ACA CCA TCA TCA CTT ACA GTA GTA ACA TCG TCG CTC ACG GTG . GTG GGG TCG ACG CCG ACG AGT ACT CTA AGT AGC AGC CTG AGC 300 290 Ser Lys Arg Glu Lys Lys Asp Arg Val Phe Thr Asp Lys Thr Ser Ala Thr Val Ile Cys WSN AAR MGN GAR AAR AAR GAY MGN GTN TTY ACN GAY AAR ACN WSN GCN ACN GTN ATH TGY TCT AAA CGT GAA AAA AAA GAT CGT GTT TTT ACT GAT AAA ACT TCT GCT ACT GTT ATT TGT TCC AAG CGC GAG AAG AAG GAC CGC GTC TTC ACC GAC AAG ACC TCC GCC ACC GTC ATC TGC TCA CGA GTA ...CA ACA TCA GCA ACA GTA ATA CGA ACG TCG GCG ACG GTG CGG CGG GTG ACG TCG AGT AGT AGA AGA AGC AGC AGG AGG

									310					- <	,		^		380	
Arg	Lys	Asn	Ala	Ser	Ile	Ser	Val	Arg	Ala	Gln	Asp	Arg	(Tyr	Ty	Ger	Ser	Ser	Trp	Ser	
MGN	AAR	AAY	GCN	wsn	ATH	WSN	GTN	MGN	GCN	CAR	GAY	MGN	TAY	TAY	WSN	WSN	WSN	TGG	WSN	
				·																
CGT	AAA	AAT	GCT	TCT	ATT	TCT	GTT	CGT	GCT	CAA	GAT	CGT	TAT	TAT	TCT	TCT	TCT	TGG	TCT	
						TCC													TCC	
CGA						TCA						CGA				TCA			TCA	
CGG	•		GCG	TCG		TCG	GTG	CGG	GCG			CGG			TCG	TCG	TCG		TCG	à
AGA				AGT		AGT		AGA		_		AGA			AGT	AGT	AGT		AGT	
AGG				AGC		AGC		AGG		٠.	٠,٠,	AGG			AGC	AGC	AGC		AGC	
<b>~1</b>			_	•		_														
GIU	Trp	Ala	Ser	Val	Pro	Cys	Ser	***												
GAR	TGG	GCN	WSN	GTN	CCN	TGY	WSN	TRR										•		
GAA	TGG	GCT	TCT	GTT	CCT	TGT	TCT	TAA												
GAG		GCC	TCC	GTC	CCC	TGC	TCC	TAG												
		GCA	TCA	GTA	CCA		TCA	TGA												

TCG

AGT

AGC

GCG TCG GTG CCG

AGT

AGC

Sheet 8 of 16

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CTG

CTG

CTG

AGC

<del>...</del>3

AGC AGG

									_										
									110										120
Glu	Thr	Ser	Phe	Ile	Thr	Asn	Gly	Ser	Cys	Leu	Ala	Ser	Arg	Lys	Thr	Ser	Phe	Met	
GAR	ACN	WSN	TTY	ATH	ACN	AAY	GGN	WSN	TGY	YTN	GCN	WSN	MGN	AAR	ACN	WSN	TTY	ATG	ATG
						AAT AAC												ATG	ATG
GAG	ACA		110	ATA		AAC	GGA		160			TÇA		AAG	ACA		110		
	ACG				ACG		GGG					-	CGG		ACG				
		AGT						AGT		CTA		AGT	AGA			AGT			
		AGC						AGC		CTG		AGC	AGG			AGC			
									130										140
Ala	Leu	Cvs	Leu	Ser	Ser	Ile	Tvr	Glu		Leu.	Lvs	Met	Tvr	Gln	Val	Glu	Phe	Ive	140 Thr
						ATH													
						ATT													
GCC		TGC		TCC		ATC	TAC	GAG	GAC		AAG		TAC	CAG		GAG	TTC	AAG	
	CTC			TCG		WIW				CTT					GTA				ACA ACG
•••	CTA			AGT						CTA									
	CTG	•	CTG	AGC	AGC					CTG									
Mot	Acn	212	Lare	T.011	T.e.11	Met	Aen	Pro	150	Ara	Gln	Tle	Dhe	ī.eu	) en	Gln	Aen	Met	160 Leu
						ATG													
ÅTG						ATG												ATG	
	AAC		AAG	TTG			GAC		AAG		CAG		TTC		GAC	CAG	AAC		TTG
		GCA GCG			CTT			CCA		CGA CGG		ATA		CTT					CTC
					CTA					AGA				CTA					CTA
				CTG	CTG					AGG				CTG					CTG
									. 70										100
Δla	Val	Tle	asa.	Glu	Leu	Met	Gln	Ala	170 Leu	Asn	Phe	Asn	Ser	Glu	Thr	Val	Pro	Gln	180 Lvs
						ATG													
		:																	
						ATG													
				GAG	CTT		CAG		CTT	AAC	TIC	AAC	TCC TCA			GTA		CAG	AAG
	GTG	ATA			CTC				CTC				TCG			GTG			
		•			CTA				CTA				AGT						
					CTG				CTG				AGC						
									100	•									200
Ser	Ser	Len	G] 11	Glu	Pro	Asp	Phe	Tvr	190 Lvs	Thr	Lvs	Ile	Lvs	Leu	Cvs	Ile	Leu	Leu	
						GAY													
TCT	TCT	TTA	GAA	GAA	CCT	GAT	TTT	TAT	AAA	ACT	AAA	AII	AAA	TTA	TGI	ATT	TTA	TTA	CAT
						GAC						ATC	AAG	3	TGC	ATC	TTG	TTG	CAC
		CTT			CCA					ACA		ATA		CTT		ATA		CTT	
		CTC			CCG					ACG				CTC CTA				CTC CTA	
		CTA												CTG				CTG	

## Fig. 5C

									210										220	
Ala	Phe	Arg	Ile	Arg	Ala	Val	Thr	Ile	Asp	Arg	Val	Thr	Ser	Tyr	Leu	Asn	Ala	Ser	***	
GCN	TTY	MGN	ATH	MGN	GCN	GTN	ACN	HTA	GAY	ЗЗИ	GTN	ACN	WSN	TAY	YTN	AAY	GCN	WSN	TRR	
														. <del></del>						
GCT	TTT	CGT	ATT	CGT	GCT	GTT	ACT	ATT	GAT	CGT	GTT	ACT	TCT	TAT	TTA	AAT	GCT	TCT	TAA	
GCC	TTC	CGC	ATC	CGC	GCC	GTC	ACC	ATC	GAC	CGC	GTC	ACC	TCC	TAC	TTG	AAC	GCC	TCC	TAG	
GCA		CGA	ATA	CGA	GCA	GTA	ACA	ATA		CGA	GTA	ACA	TCA		CTT		GCA	TCA	TGA	
GCG		CGG		CGG	GCG	GTG	ACG			CGG	GTG	ACG	TCG		CTC		GCG	TCG		
		AGA		AGA						VÇŸ	٠.		AGT		CTA			AGT		
		AGG		AGG						AGG	•		AGC		CTG			AGC		

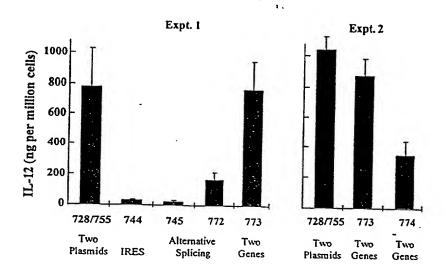
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## Codon Frequency Tables

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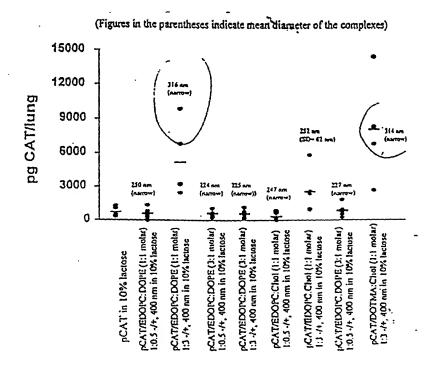
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ancid	Coden	trusbe c	17000	Traction
CLY	GGE	105.00	18.75	4.24
Cly	ect ecy	\$25.00	10.16	4.14
CJÀ CJÀ	ccc	441.00 1867.00	3.14 28.70	6.12 6.50
Clu Glu	GAA CAA	2420.30 752.00	30:16 16.62	0.75 0.25
Lep	CAT	592.60	12.22	0.25
Asp	ex.c	1021.00	187 - 13	0.75
VAl Val	CTC	1866.00 231.00	34.68	0.6¢ . 0.05
Val.	cii	191.00	1.10	4.67
141	CIC	721.00	15.49	0.25
Ala .	ece	652.00	13.51	9.17
ALA ALS	ocs ccy	486.00 634.00	10.12 13.56	0.13
ملد	ecc.	2057.00	42.64	0.53
Arg -	rce ree	512.00 254.00	10.61 6.18	8.70 4.78
Ser	ACT	354.00	7.34	0.16
SAT	ACE	1171.00	24.27	0.36
Lye	MC	2117.00	11.23	4.12
Lys Asn	WI	471.60 314.60	9.76 6.52	0.18
yau	ΩĊ.	1120.00	23.22	0.22 0.78
Kee	ATC	1077.00	22.32	1.60
Ile	LTL	68.00	1.42	0.65
Ile Ile	ATT	315.60 1368.30	58-38 6-53	3.18 8.77
The	Let	(05.00	£.40	4.15
Dar.	ACL	173.00	7.73	0,10
The	ACT	158.00	7.62	9.14
The	ACC	1502.00	31.13	4.57
TED	100 100	652.08	13.51 2.25	1.00
End Cys	ici	109.00 325.00	6.74	4.55 9.32
Cys	TGC	106.00	14.63	6,64
Ead	TAG	42.00	0.87	4.21
End Tye	TAX TAT	46.00	4.95	0,23 8,26
tye	TIC	360.00 1042.00	7,46 21,60	1,74
Lou	170	313.00	6.43	4.46
Eau Pho	TTA TTA	76.00 336.00	1.58 6.56	0,42 0,20
the	TTC	1377.00	21,54	4.14
Ser	TCG	329.00	6.74	1.19
Ser	107	-165.00	3.42	8.85
Sae Sae	100	450.00 558.00	19.86	4.13 4.24
Arg	ccc	£11.05	12.67	0.21
YEG	CCA	193.00	3.75	4.96
Azg Azg	ccc	218.00 1886.08	4.35 22.51	6.67 5.37
Cla	cre	2929.00	(2.17	4.11
CLA	cu	283.00	5.17	6.73
Mis	C).	234.00 870.00	11.43	e.21 e.75
Leu	cic	2866.00	\$1.72	4.54
Leu Leu	CIT	166.00 238.00	3.te 1.33	8.83 8.85
Liu	crc	1276.00	26.45	1.26
820	ccc	487.00	3,11	4.27
Pro	<u> </u>	456.00 \$64.00	11,17	8.14
100	eee	1410.00	25.23	\$.13 \$.tt

Fig. 7

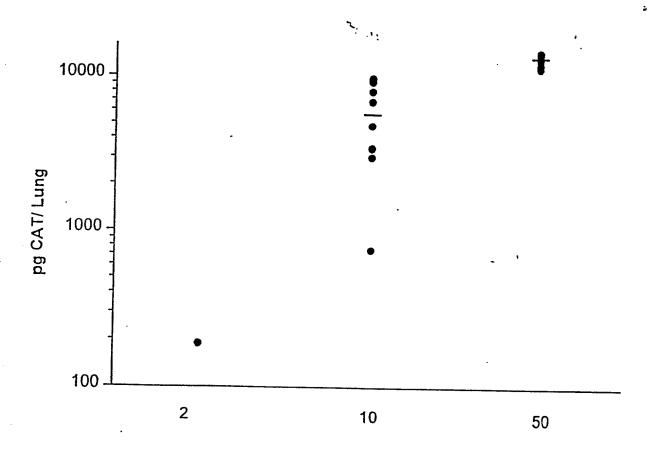


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Fig.



The state of the s



ug pDNA Instilled

Fig. 10

M (measurement) = bronchoalveolar lavage total and differential cell count

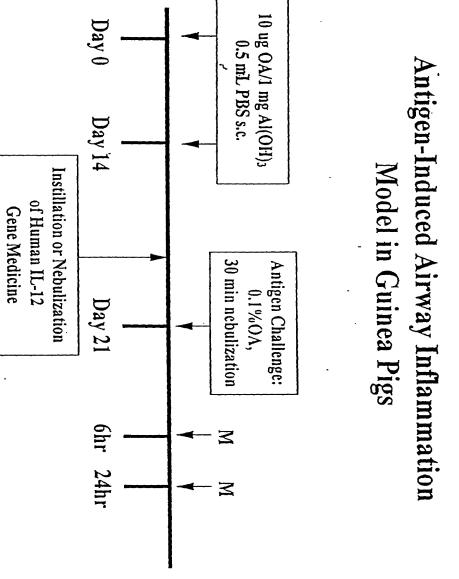


Fig. 11

